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ORANGE COUNTY AMATEUR RADIO CLUB

VOLUME XV, NO. 8

P.O. BOX 95, ORANGE, CALIF. 92668

AUGUST, 1974

OCARC AUGUST MEETING:

JOHN GRIGGS-W6KN
DIRECTOR-ARRL
SOUTHWESTERN DIV.

— 1974 CLUB OFFICERS —

| | | | |
|--------------|-----------------|--------|----------|
| PRESIDENT | KEN KONECHY | W6RHC | 541-6249 |
| V. PRESIDENT | ART SHELTON | WA6LHB | 332-9676 |
| TREASURER | HAROLD RICHARDS | WA6BJO | 544-0033 |
| ACTIVITIES | MARTIN RAYMOND | WB6PEX | 532-4090 |
| SECRETARY | TINA MCCARTHY | WN6WTV | 538-6072 |
| MEMBERSHIP | TED GLICK | K6LJA | 542-1390 |
| PUBLICITY | FRIED HEYN | WA6WZO | 338-9078 |
| TVI | KEI YAMACHIKA | W6NGO | 538-8942 |
| M.A.L. | ERNIE FUERTE | WA6GXV | 839-7107 |
| | BOB ECKWEILER | WB6QNU | 639-5074 |

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|--------|--------------|--------|----------|
| EDITOR | NEIL VADNAIS | WA6TZA | 839-7378 |
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OCARC ACTIVITIES

MEETING 3rd Friday of each month, 7:30 PM at:

Mercury Savings and Loan
1095 Irvine Blvd. (4th Avenue)
Tustin, California

GUESTS ARE ALWAYS WELCOME

BREAKFAST 1st Saturday of each month, 8:30 AM at:

SAMBO'S RESTURANT
2101 E. First Street (1-block west of Tustin Ave.)
Santa Ana, California
MEETS IN THE BACK OF THE ROOM

15M NET Club station W6ZE meets every Wednesday
at 8:00 PM on 21.375 MHz. All amateurs
are welcome to check in. Club and ARRL
bulletins read.

15M CW NET Club station W6ZE meets every Wednesday evening
from 7PM to 8PM on 21.175 MHz. All amateurs
are welcome to check in. Lots of CW practice
for everyone.

CALLBOOK SERVICE

The club has copies of the latest callbooks which are available at each meeting. Also, you can contact Martin-WB6PEX on Monday and Thursday evenings between 7:00 PM and 9:00 PM if you need addresses. If you have more than one call for Martin to check, he'll get them all and call you back the same night. Also, look for Martin after the Wednesday evening net.

"RF"

ORANGE COUNTY AMATEUR RADIO CLUB

AUGUST, 1974

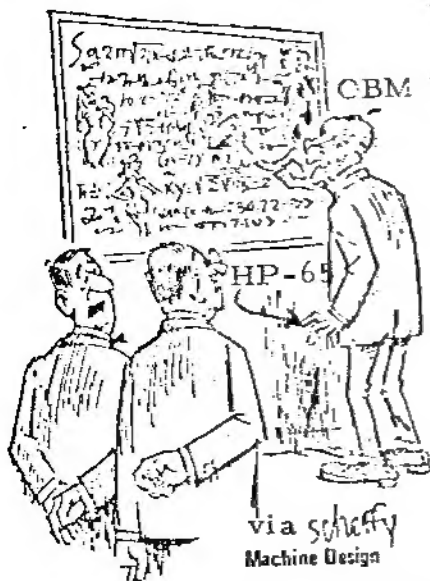
THE PREZ SEZ:

The Orange County Amateur Radio Club is honored this month to have John Griggs-W6KW, Director of the ARRL Southwestern Division, as our guest speaker. Primarily through the efforts of our SCM, Mr. Griggs has spoken at various radio clubs in the area on a regular basis. Now, OCARC members will have a chance to hear Mr. Griggs at one of our own meetings. I have taken this opportunity to extend a welcome to members of all clubs in the area to hear this important talk. With all the proposed changes being discussed by the FCC, and all of the changes being requested by the ARRL and other organizations, Mr. Griggs will hopefully give us an insight into what is really expected to come out of all this confusion. I know that none of you will want to miss this meeting.

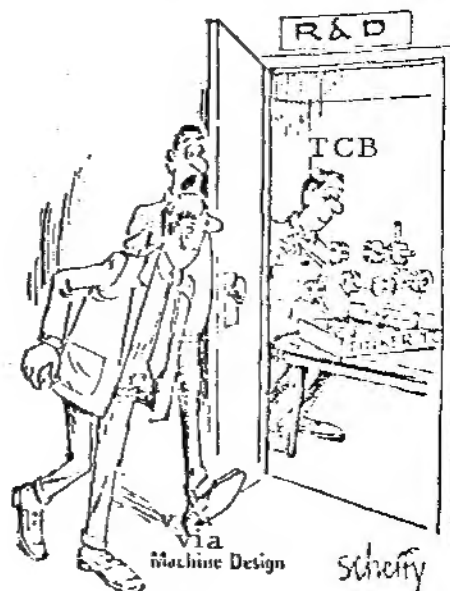
Those of you who participated in the OCARC BEACH PARTY at the Newport Dunes on July 21, certainly know that everyone had a good time. Even the few, like Don - OOH and Art - LHB, who had a little bout with "overexposure" and complained the next day about something called "sunburn". We did have a fair turnout, and it was good to see all the XYLS and harmonics joining us for the fun.

Another ocean fishing trip is being planned for Saturday, October 12. This again will be an all day affair out of Dana Point for some local waters fishing. Those interested, should get in touch with our Activities Chairman, Martin-WB6PEX, at 532-4090 as soon as possible. DON'T MISS IT!!!!

Ken - W6HHC



"He's brilliant, but his mind wanders."



"Nevertheless, he comes up with some great ideas."

HOMEBREW A CLOVERLEAF QUAD - Continued . . .

(This is the second and final part of an article submitted by Dick, WA6TCB. This month's issue continues on from the first part, printed in the July issue of R.F.)

Lacking adequate measuring instrumentation I can only surmise. However I believe I am well within the ball park on my estimations. For maximum DB gain on 40 meters one should use a spacing of 0.12 wavelength or about 17 feet. This spacing should give a DB gain factor of 6. 8 feet therefor will give a gain of not more than 3.5 DB over a dipole.

Side and rear rejection are marginally minimal. Looking into this matter again spacing between elements seems to be the problem. However I believe I can increase rejection by using a tuning stub and by adjusting the shorting bar. This will, in effect, increase the over-all wire length of the reflector and should increase rejection capabilities.

By varying the length of the reflector stub I should be able to increase the antenna power gain through a better front to back ratio. This too, will have some effect on resonant frequency of the driven element, but should not hamper the overall operation.

Resonate frequency is 7.139 MHz where the match reads 1-1. The antenna is quite narrow banded. A movement of 20 KC either side increases the match to 2-1. Without a matching device or wire tuner one would, with this particular antenna, be quite limited.

HOMEBREW A CLOVER LEAF QUAD - Continued . . .

Fortunately I have an excellent match-box on bench, designed and made by WN6VCI, Ralph Waterman, Costa Mesa way. With this device I can keep the match well under 1:5-1 the entire 40 meter band.

I have no plans to increase the boom length for two rather valid reasons. One, I have to do all my work up 65 feet, and two; I don't wish to increase the overhang weight.

In conclusion: The antenna copies an average of two "S" units above my vee and hustler multiband. My first CW contact was an Alaskan station. The given signal report, 5-9-9 under poor band conditions.

On SSB in response to my "CQ" a Corpus Christi, Texas station returned with the comment; "Old man you are booming in here 40/9 with fantastic audio, what's the size of your shoes?" My output wattage on CW is 200, and of course some less on SSB.

I'm perfectly satisfied with the antenna. It is doing an excellent job. Other than the future addition of a tuning stub on the reflector I'll leave well enough alone ----- at least for the time being.



By G. Y. — W6PCA

In writing about Marconi in last month's story we told you about the birth of Amateur Radio. Since that story was published, several of the fellows have asked us about some of the things that took place after that "Blessed Event" that led us up to the lusty child that Amateur Radio is today. Well, that is a long story but nevertheless we have always felt that there were several amateurs that had a hand in the "Bringing Up" of the "Child" that have never been mentioned in any of the very able histories of Amateur Radio that we have had the pleasure of reading so this gives us a good excuse to write about one of these apparently forgotten men as well as giving you some of the contributing factors, so we will pick our story up from where we left off last month.

Radio (or Wireless as it was called then) was on every tongue with the turn of this century and was fast filtering into the inquisitive minds of a few of the so-called experimenters and tinkerers, where it found a very receptive place due to the great fascination that it had. It seemed almost beyond human belief that with the aid of a few "Gadgets" and a bunch of wires stuck up in the air, it was possible to send messages thru the air and receive them with another "Gadget" miles away. The alert minds of the Amateur experimenters reasoned that if this thing could be done commercially, then surely it should be possible for them to duplicate the experiments over shorter distances with home-made "Gadgets" and so the more ambitious set right to work gathering all the data that it was possible to get from the commercial equipment and it wasn't long until they started building, from odds and ends, crude "Gadgets" of their own that would send and receive messages. And when we say "Crude" we mean crude, but somehow they worked and in many cases worked better than the equipment that was in use by the commercial. These were the good old days of the spark coil and coherer.

It was not long before these youthful experimenters discovered that transmissions could be tuned by means of coils, or "Helix" as they were called, so that the signal would have a certain "Wavelength" and also that by means of tuning coils at the receiving end, a number of stations could operate simultaneously without interference with each other—they had something there at that. Thus the art of Radio developed. During the years, 1906 to 1910, the spark coil gave way to the 110 volt A. C. transformer, straight spark gaps became the good old rotary

gaps with all its music—Boy, Oh Boy, those good old rotaries !!! and the coherer was replaced by the crystal and electrolytic detectors and so on until miles were being covered by the Amateurs as well as by the commercials.

In 1909, the first radio club was formed in New York City, known as The Junior Wireless Club, Ltd., later growing into the now famous Radio Club of America. The officers of the Junior Wireless Club included W. E. W. (Buster) Stokes, Jr., founder, R. A. Fessenden, George Eltz and Frank King. Such men as George Burchard, E. H. Armstrong, Dr. Hudson, Irving Vermilya and Dr. Goldhorn were listed on the club membership records, which grew to over 100 members by 1912. At this time a list of calls was put into effect. Most of the calls were made up, as we have told you before on these pages, of the operator's initials. Ernest Arny was "EA." George Eltz did not like the sound of "GE" so took the more graceful and rhythmic call combination of "GZ." Louis Gerard Pacent selected "ABC," the letter combination now used, as most of you know, by commercial code stations as a test call signal. Among the membership of this old club, the real motivating force behind the developments was the founder, Buster Stokes, Jr., and he is one of the "Forgotten Men" that we think should have his name hung up in gold letters on the wall of every Ham Shack in the country because it had not been for young Stokes, Amateur Radio might not be in existence today. In 1910, at the age of 14 years, Buster headed a delegation to Washington and effectively killed a bill that had been introduced by the late Senator Chauncey Depew, which, had it passed, would have prohibited Amateur Radio experimentation for all time.

The old newspaper clipping that we have in our diary reads as follows:

"BOY WARS ON AIR TRUST"
"BUSTER STOKES, 14 YEARS OLD,
TALKS TO SENATE COMMITTEE"
"BILL TO CURB AMATEURS IS EARNESTLY DENOUNCED BY HIM"

According to the clippings, Buster sure told the old boys a thing or two that stuck. And that is why we think that Amateur Radio owes a great deal to W. E. D. Stokes and we would like to see his name in print more often. Incidentally the name "Amateur Radio" was coined by members of the Senate Committee who drew up the bill so they gave us a name at any rate even if they did try to put us off the air.

"KNOW YOUR CLUB OFFICERS"

KEI YAMACHIKA - W6NGO ——— TVI CHAIRMAN

Kei was born in 1918, in Anaheim, California, and has lived here all of his life. He attended school in Buena Park and Fullerton, and in 1941 joined the U.S. Army. Kei served as a radio operator during his four years in the service, having been an amateur since he was seventeen years old. Kei's first rig was a home-brew Eimac 50-T 150 W Xmtr, using a "Hertz Off-Center Fed Antenna," and a National SB-7 rcvr.

Kei joined the Orange County Amateur Radio Club in 1936, and is one of the originals.

Kei retired in 1967 as an agricultural farmer, here in Orange County. When operating his station, Kei enjoys making contacts with friends in JA-Land. He also visits to that country twice a year. Another hobby of Kei's is fishing, and he likes to go whenever he finds the time. Kei now lives with his wife and mother in Orange, California.

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VISITING 10-10'ER

Jack, W2BBR, visiting from Clifton, N.J., during July, reports a good amount of activity on 10 mtrs., by 10-10 club members in New Jersey.

Jack, #10-10-544, gives operating times as 3 to 5 P.M., E.D.S.T., on 29.0 Mhz. Jack, and the other members of the N.J. 10-10 club, will be glad to QSO any of the OCARC members, so give them a try.

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JULY OCARC MEETING VISITORS

| | | |
|-----------------|--------|------------------|
| Paul Norcross | K6OLX | Huntington Beach |
| Rich Gehle | WB6FMV | Orange |
| Diana Sheldon | WNOKTB | Leaven, Kansas |
| Pete Bissell | — | Anaheim |
| Lonnie Williams | WA6OOZ | Orange |
| Jack Fern | W2BBR | Clifton, N. J. |

SPECIAL!!! ———AUGUST MEETING PROGRAM——— SPECIAL!!!

The OCARC meeting on August 16th will feature, as it's guest speaker, John R. Griggs, W6KW, Director of the Southwestern Division of the ARRL.

At meeting time, John will have just returned from the '74 National Convention in New York City, and also a Director's meeting. He should have the latest news on many areas of interest to all amateurs, so be sure to attend this meeting.

"RF"

ORANGE COUNTY AMATEUR RADIO CLUB

AUGUST, 1974

AUGUST OCARC MEETING

Don't miss this meeting, as many topics of interest to all amateurs will be discussed by Jack Griggs, W6KW, Director of the Southwestern Division of the ARRL.

Kit Builder: Any Kit Built!!! Contact: Shirley Forman at (714) 646-2567

FOR SALE:

54 Ft. Tower — Bean TR-44 Rotor, Cables, Coax, Guywires . . . the whole works.
Best Offer: Mrs. Engelhard (714) 544-0419.

NOVICE-GENERAL LICENSE PREP COURSE: Begins Tues., Sept. 8th, 1974 at Saddleback High School, in Santa Ana, (Flower Street, South of Warner Avenue.)

Class meets on Tuesday and Thursday nights, 6:30 to 9:30 P.M. Material Fee - \$5.00.

For further information, contact Ray - W6HTF Phone: (213) 431-6079 Seal Beach, Calif.

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ORANGE COUNTY AMATEUR RADIO CLUB, INC.
POST OFFICE BOX 95
ORANGE, CALIFORNIA 92688



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FIRST CLASS!!!

DATED MATERIAL !!!